

IN THE CLAIMS:

Please cancel claim 13 and amend/replace claims 1, 4, and 11 as follows:

Claim 1. (currently amended) An apparatus for placing a circular end cap on a cylindrical workpiece, comprising:

a stationary support base;

a guide member which is fixedly attached to the stationary support base and which comprises a ramp;

a movable push bar linearly and reciprocally moveable with respect to said stationary support base;

a spacer which is operatively attached to said push bar for concurrent movement therewith;

an emplacement applicator operably coupled to said spacer, comprising:

a back plate, having ~~an upper~~ a first part and a ~~lower~~ second part, ~~having a post operatively attached thereto, said post being disposed proximate said ramp~~ said second part having a front side and a back side;

a flange affixed to the ~~lower~~ second part of said ~~applicator~~ back plate on said front side, said flange being pivotally attached to said spacer at a pivot connection distal from said back plate;

a cam follower bearing assembly operably attached to said flange distal from said pivot connection, said cam follower bearing assembly resting on said ramp of said guide member;

~~said emplacement applicator further comprising~~ an end cap clamping jig operatively attached to the ~~upper~~ first part of said ~~applicator~~ back plate for receiving said end cap when said back plate is in a substantially horizontal position;

~~wherein linear inward movement of said push bar, from a first position to a second position, moves the post up the ramp, causing said applicator plate to pivotally move around said pivot connection, from a substantially horizontal orientation to a substantially vertical orientation thereof~~

said push bar being configured to move said spacer in a first linear direction, said cam follower bearing assembly being configured to move up the ramp in

response to said linear movement of said spacer and to rotate said back plate about said pivot connection from a substantially horizontal position to a substantially vertical position to move said end cap on said end cap clamping jig against said workpiece.

Claim 2. (original) The apparatus of claim 1, wherein said end cap gripping jig comprises a plurality of arcuate segments which cooperate to form a circular hollow therebetween, when placed in end-to-end contact with one another; wherein each of said arcuate segments is radially reciprocally movable with respect to said circular hollow.

Claim 3. (original) The apparatus of claim 2, wherein each of said arcuate segments has a groove formed in an inner surface thereof, to receive an end cap edge portion.

Claim 4. (currently amended) The apparatus of claim 2, wherein said arcuate segments are provided with tapered inner edges, for forcing a circumferential edge of a said workpiece inwardly as the segments are forced therepast.

Claim 5. (original) The apparatus of claim 2, wherein said end cap clamping jig comprises at least three segments.

Claim 6. (original) The apparatus of claim 1, further comprising a servo motor for moving said push bar.

Claim 7. (original) The apparatus of claim 1, wherein said guide member comprises a first upstanding guide plate, attached to the stationary support member and having a first guide groove formed therein.

Claim 8. (original) The apparatus of claim 7, wherein said first guide groove comprises a substantially horizontal first section, a second section which extends upwardly at an angle from said first section and which defines said ramp therebelow, and a substantially horizontal third section.

Claim 9. (original) The apparatus of claim 7, wherein said guide member comprises a second upstanding guide plate, attached to the stationary support member and having a second guide groove formed therein and facing toward the first guide groove.

Claim 10. (original) The apparatus of claim 1, wherein said emplacement applicator comprises a drive plate for connecting to said push bar, and wherein said spacer is affixed to said drive plate.

Claim 11. (currently amended) The apparatus of claim 1, wherein said end cap clamping gripping jig is adapted to be pneumatically actuated.

Claim 12. (original) The apparatus of claim 6, further comprising a threaded shaft attached to said servo motor, and wherein said push bar is threadably connected to said threaded shaft for movement thereby.

Claim 13. (cancelled)

Claim 14. (original) A method of applying an end cap to a cylindrical filter element having a longitudinal axis, comprising the steps of:

- a) supporting a cylindrical filter element at a central portion thereof;
- b) grasping a first end cap with a clamping jig of a first end cap application apparatus, said application apparatus comprising a back plate;
- c) positioning the filter element adjacent said end cap application apparatus; and
- d) pivotally moving said applicator back plate around a pivot connection, causing said plate to move from a substantially horizontal orientation to a substantially vertical orientation thereof, to force said end cap in covering relation over a first end of said filter element.

Claim 15. (original) The method of claim 14, further comprising a step of applying a second end cap to a second end of said filter element with a second end cap application apparatus which is substantially similar to said first end cap application apparatus.

Claim 16. (original) The method of claim 15, wherein both end caps are simultaneously applied to said filter element.

Claim 17. (original) The method of claim 14, wherein each of the arcuate segments of the end cap clamping member comprises a tapered edge on an inner surface thereof, and wherein said tapered edge forces a circumferential outer edge of a filter element inwardly during step d) as said tapered edge is moved past said filter element outer edge.

Claim 18. (original) The method of claim 14, wherein said end cap applicator apparatus comprises a flange attached to a lower part of said back plate and a cam follower bearing attached to said flange and extending outwardly thereon, and wherein said cam follower bearing is moved up a ramp during step d).

Claim 19. (previously presented) A method of applying an end cap to a cylindrical filter element having a longitudinal axis, comprising the steps of:

supporting a filter element at a central portion thereof;

grasping a first end cap with a clamping jig of a first end cap application apparatus, said application apparatus comprising a back plate;

positioning the filter element adjacent said end cap application apparatus;

and

pivotaly moving said applicator back plate around a pivot connection, causing said plate to move from a substantially horizontal orientation to a substantially vertical orientation thereof, to force said end cap in covering relation over a first end of said filter element.

Claim 20. (previously presented) The method of claim 19, further comprising:
applying a second end cap to a second end of said filter element with a second end cap application apparatus which is substantially similar to said first end cap application apparatus.

Claim 21. (previously presented) The method of claim 20, wherein both end caps are simultaneously applied to said filter element.

Claim 22. (previously presented) The method of claim 19, wherein said end cap gripping jig comprises a plurality of arcuate segments each of said arcuate segments comprises a tapered edge on an inner surface thereof, and wherein said tapered edge forces a circumferential outer edge of said filter element inwardly during said pivotally mounting as said tapered edge is moved past said filter element outer edge.

Claim 23. (previously presented) The method of claim 19, wherein said end cap applicator apparatus comprises a flange attached to a lower part of said back plate and a cam follower bearing attached to said flange and extending outwardly thereon, and wherein said cam follower bearing is moved up a ramp during said pivotally mounting.